**Phage Archiving Practical**

Phage Page Questions

1. When is the best time to make a phage page?
   1. When you prep for DNA extraction
   2. When you are putting together your archive shipment to send to Pitt
   3. When you confirm you have found a phage
   4. The day a grade is due
   5. When you are purifying your phage
2. Why do phages have a unique name?
   1. To encourage project ownership
   2. Biologically sound science
   3. Easier to find in a freezer box
3. Which of the following will most likely result in a phage name being vetoed (Select all that apply)?
   1. Biological word
   2. Homophone
   3. Inappropriate
   4. Systematic
   5. Non pronounceable
   6. Weird spelling
4. Based on the naming rules would you accept or veto the following names?

|  |  |  |  |
| --- | --- | --- | --- |
| Phage Name | Accept | Veto | Rational |
| Biscuit |  |  |  |
| Pastrami |  |  |  |
| LMQ095 |  |  |  |
| Micro |  |  |  |
| TimmyTurtle |  |  |  |
| Poopypipette |  |  |  |
| BlueBaron |  |  |  |
| PHY11IS |  |  |  |
| Fruitsalad |  |  |  |
| Grotto |  |  |  |
| Jephph |  |  |  |

1. Put the phage page submission protocol in the correct order (Put in order 1-5)

\_\_\_\_ Make a phage page

\_\_\_\_ Obtain name approval from instructor and Primary faculty member

\_\_\_\_ Choose a phage name

\_\_\_\_ Phage page approved and Posted, email confirmation sent

\_\_\_\_ Checked by SEA-Team member

1. What is the correct protocol when a phage name is vetoed (Put in order 1-6)

\_\_\_\_ Coming up with new name

\_\_\_\_ Respond to veto email with new name

\_\_\_\_ Checked by SEA-Team member

\_\_\_\_ Phage page vetoed, email confirmation sent

\_\_\_\_ Obtain approval from instructor and Primary faculty member for new name

\_\_\_\_ Phage page approved and Posted, email confirmation sent

1. When is a phage page reviewed by the instructor as complete and accurate?
   1. When the phage gets sequenced
   2. Prior to when the phages are prepped for shipment of archive samples
   3. When the student is no longer in the class and able to be contacted
   4. When there is new information about the phage
2. Where is the phage lysate titer to be recorded?
   1. Archiving sheet
   2. Phages DB
   3. SEA-PHAGES
   4. None of the above
3. Who is responsible for recording the titer
   1. Pitt
   2. HHMI
   3. Your Institution
4. At your Institution who is responsible for complete and accurate phage pages?
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Which SEA-Team member checks phage names?
   1. Debbie
   2. Billy
   3. Danielle
   4. Dan
   5. Emily
   6. Vic
   7. Steve
   8. Graham

**Did you know….**

53% of the SEA schools had a vetoed name

38% of those schools had 1 vetoed name

The highest rate of vetoed names from one school is 34%

Archiving questions

1. When is the best time to make an archive sample?
2. When you have an impure lysate
3. When you find a phage
4. The day a grade is due
5. When you DNA extract
6. When the student has graduated from the course
7. When should an archive sheet be created?
   1. When you are putting your shipment together
   2. When you know all phage pages have been accepted and you have verified the information is complete and accurate, including archive titers
   3. When all students have found a phage
8. When are archive samples due (Select all that apply)?
   1. December 15th
   2. March 4th
   3. May 9th
   4. When samples are correctly prepared and the phage page data is complete and accurate
   5. December 23rd
9. Do you have to ship archives on December 15th?
   1. Yes
   2. No, you can ship with DNA samples
   3. No, you can arrange a more convenient time by emailing Emily
   4. No, do not ship after December 18th (It is best to avoid the holidays)
10. What do you do if the archive lysates are not ready to meet the due date?
    1. Prepare a week later and ship
    2. Send some now and some later
    3. Notify Pitt/Emily when to expect them

Tube related questions

1. In the box you will find 7 tubes with incorrect labeling and 7 tubes prepped incorrectly, can you figure what is incorrect about each tube?

**Incorrectly labeled tubes**

1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Incorrectly prepped tubes**

8: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Archive tube requests are due by October 15th so that archiving materials arrive in time to archive. How many tubes do you request for archiving (Select all that apply)?
   1. The number of phages you’ve found
   2. Only phages getting sequenced
   3. The number of tubes you choose to request
   4. The number of overdue phages you will send
   5. The number of phages you expect to find